# UML Series 42- and 55-inch High Performance HD LED Monitors

www.boschsecurity.com

**BOSCH** 



The Bosch High Performance LED monitors are 1080p Full HD resolution color monitors ideal for use with analog video, digital video recorders (DVRs), and with PC applications. The monitors feature a color LCD flatscreen panel and are available with 42-inch or 55-inch viewable picture areas. Each monitor features a wide range of horizontal and vertical viewing angles that provide comfortable, clear viewing – whether you mount it to a wall or to a ceiling.

## Functions

#### **Excellent image quality**

The Bosch High Performance HD LED monitors automatically adapt to the input resolution of the incoming video signal, and support up to 1920 x 1080 resolution (Full HD). The monitors' analog VGA input easily accommodates the widespread use of PCs in today's security surveillance systems. Their high contrast ratio (4000:1) and a high brightness setting offers excellent color accuracy and imaging for easier viewing and interpretation of images. The panel refreshes every eight milliseconds, so you get crisp, clear images with less smearing - and less image "ghosting" in fast-motion video.



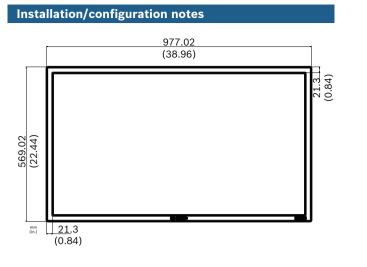
- ▶ Full HD 1920 x 1080 resolution
- Precise color reproduction
- HDMI, DVI, VGA, S-Video inputs
- Fast response time
- High contrast ratio of 4,000:1

### **True color enhancement**

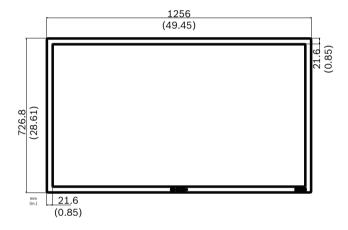
The monitors provide true color performance. The monitors automatically focus on setting the correct color, temperature, and gamma curve settings to deliver the highest possible picture quality.

Certifications and approvals		
Region Safety Certification		
перин	Safety Certification	
Canada	cUL	
Europe	EN60950, CE Declaration of Conformity, CB scheme	
USA	UL60950	
Electromagnetic Compatibility (EMC)		
Emission	EN55022:2010 class B, FCC part 15 class B	
Immunity	EN55024:2010, EN50130-4:2011	
Environmental		
Vibration and Shock		

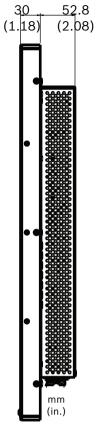
Vibration and Shock Level 5 Energy Star Certificate



#### UML-423-90: Front View



UML-553-90: Front View



UML-423-90/UML-553-90: Side View

Parts included		
Quant.	Component	
1	Bosch Full HD Color LED Flat Panel Monitor	
2	Power Cords, 3-wire with grounded plug 1.8 m (6 ft) long: one with a U.S plug type and one with a European Continental plug type	
1	1 DVI-D to DVI-D cable, 1.8 m (6 ft)	
1	1 VGA to VGA (D-Sub), cable, 1.8 m (6 ft)	
1	Trigger cable	
1	Remote control	
2	AAA batteries for remote control	
1	Installation Manual (English)	
1	CD-ROM with multi-language Installation Manual	

# **Technical specifications**

### Electrical

	UML-423-90	UML-553-90
Rated Voltage	120/230 VAC, 50/60 Hz	
Voltage Range	100-240 VAC, 50/60 Hz	
Frequency	Horizontal: 60–73 KHz Vertical: 47–63 Hz	

Power at Rated Voltage		
• On	150 W	170 W
Active Off	0.5 W	0.5 W

# Video

	UML-423-90	UML-553-90
Sync Format	PAL/NTSC	PAL/NTSC
LCD Panel	LED	LED
Viewable Picture Area	42 in.	55 in.
Active Display Area (H x V)	930.24 x 523.26 mm (36.6 x 20.6 in.)	1209.6 x 648.4 mm (47.6 x 25.5 in.)
Pixel Pitch (H x V):	0.4845 x 0.4845 mm	0.21 x 0.21 mm
Resolution <sup>1</sup>	1920 x 1080	1920 x 1080
Aspect Ratio	16:9	16:9
Display Colors	1,073 million	1,073 million
Response Time	8 ms (typical)	6.5 ms (typical)
Backlight	50,000 hours	50,000 hours

# **LCD Panel Optical Characteristics**

	UML-423-90	UML-553-90
Luminance	500 cd/m² (typical)	450 cd/m² (typical)
Contrast Ratio	4000:1 (typical)	4000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical	Horizontal/Vertical: 178°, typical

Video Input	All Models	
Composite Video (CVBS)	1.0 Vp-p (0.5–1.5 Vp-p), automatic switching from 75 Ohm unbalanced termination to Hi-Z with passive loop-through operation	
Y/C (S-video)	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination	
VGA (RGB PC)	0.7 Vp-p (0.5–1 Vrms)	
Audio Input	2.0 V line level, mono	
Timing Modes		
RGB and DVI		
640 x 480		60/72/75 Hz

	00,12,10112
720 x 400	70 Hz
800 x 600	60/75 Hz
1024 x 768	60/75 Hz

1280 x 768	60 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1366 x 768	60 Hz
1600 x 1200	60 Hz
1920 x 1080	60 Hz
HDMI	
640 x 480	60/72/75 Hz
720 x 400	70 Hz
800 x 600	60/75 Hz
1024 x 768	60/75 Hz
1280 x 768	60 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1366 x 768	60 Hz
1600 x 1200	60 Hz
1920 x 1080	60 Hz
480i	60 Hz
480p	60 Hz
576i	50 Hz
576p	50 Hz
720p	50/60 Hz
1080i	50/60 Hz
1080p	50/60 Hz
Controls	

#### Controls

Input	All Models
Rear Control Panel	Push-buttons
Video Source	Selects: Component Video, S-video, VGA, HDMI, DVI-D
Menu	Selects on-screen display (OSD), up cursor, down cursor/auto adjust, left cursor, right cursor
Power	On/Off
Control Panel Lockout	Multiple push-button combination
On-screen Display	All Models
Video Mode	Input Source, Screen, OSD, Utility

All Models
Power On (green) Power Off, Standby (red)
VGA: Check input signal Video: Flashes "AV1" or "AV2" when there is a black screen
All Models
Composite video: two (2) BNC (1 in, 1 out)
One (1) DVI-D
One (1)
One (1): 1 RGB 15-pin D-sub in, 1 RGB 15-pin D- sub out
One (1): Y, Pb, Pr
One (1) mini-DIN, 4-pin (1 in)
Five (5): 2 Audio In: RCA (right/left) 1 Audio In: phono jack 1 Audio Out: RCA (right/left) 1 Speaker Out
One (1) 1/8 in. mini phono plug
100 - 240 VAC

## Mechanical

	All Models
Cabinet Material	SECC
Finish	Black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	400 x 400 mm,

### Dimensions (W x H x D)

	UML-423-90	UML-553-90
Monitor	977.02 x 569.92 x 82.8 mm (38.96 x 22.44 x 3.26 in.)	1256 x 726.8 x 82.8 mm (49.45 x 28.61 x 3.26 in.)
With Packaging	1234 x 786 x 275 mm (48.6 x 30.9 x 10.8 in.)	1379 x 850 x 273 mm (54.3 x 33.5 x 10.7 in.)
Weight		
Monitor Weight	20 kg (44.1 lb)	32 kg (70.5 lbs)
Shipping Weight	26 kg (57.3lb)	37 kg (81.6 lbs)

### Environmental

	All Models
Operating Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature	0°C to +50°C (32°F to 122°F)
Humidity	0% to 90% Relative

# **Ordering information**

**UML-423-90 42-inch High Performance HD LED Monitor** 42-in. 1080p LED monitor with RGB, DVI, and HDMI inputs

Order number UML-423-90

#### UML-553-90 55-inch High Performance HD LED Monitor

55-in. 1080p LED monitor with RGB, DVI, and HDMI inputs

Order number UML-553-90

# Accessories

ST660 Universal Tilt Wall Mount

Tilt wall mount for an LCD 37 in. to 60 in. monitor, black

Order number ST660

#### UMM-LED42-SD Desktop Monitor Stand

Desktop stand for a 42 in. or a 55-in. LED monitor, black

Order number UMM-LED42-SD

#### Represented by:

#### Americas:

Americas: Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 security.sales@us.bosch.com www.boschsecurity.us

Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002

P.O. Box 80002 5617 BA Eindhoven, The Netherlands Phone: + 31 40 2577 284 Fax: +31 40 2577 330 emea.securitysystems@bosch.com www.boschsecurity.com

 $\circledast$  Bosch Security Systems 2013 | Data subject to change without notice 9181345035 | en, V4, 04. Oct 2013

Asia-Pacific:

Asia-Pacific: Robert Bosch (SEA) Pte Ltd, Security Systems 11 Bishan Street 21 Singapore 573943 Phone: +65 6571 2808 Fax: +65 6571 2609 apr.securitysystems@bosch.com www.boschsecurity.asia

#### China:

China: Bosch (Shanghai) Security Systems Ltd. 201 Building, No. 333 Fuquan Road North IBP Changning District, Shanghai 200335 China Phone +86 21 22181111 Fax: +86 21 22182398 www.bacsbecurity.com.cn www.boschsecurity.com.cn

#### America Latina:

America Latina: Robert Bosch Ltda Security Systems Division Via Anhanguera, Km 98 CEP 13065-900 Campinas, Sao Paulo, Brazil Phone: +55 19 2103 2860 Fax: +55 19 2103 2862 Iatam.boschsecurity@bosch.com www.boschsecurity.com